(D) observing a detectable response in the form of a color developed in the presence or absence of prostate specific antigen, whereing the color is observable to the human eye or visible light spectrum without the use of nucleic acid ligands.

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3. The method according to claim 8 wherein said nucleounit indicator conjugate can be selected from the group consisting/of 4-Aminophenyl-beta-D-galactopyranoside, 3-5-Bromo-4-chloro-3-indoxyl-beta-Dindoxyl-beta-D-galactopyranoside (blue), galactopyranoside (blue), 5-Bromo/3-indoxyl-beta-D-galactopyranoside (blue), 6-chloro-3-indoxyl-beta-D-galactopyranoside (salmon), 5-bromo-6-chloro-3-indoxyl-beta-D-6-Fluoro-3-indoxyl-beta-Dgalactopyranoside (Magenta- betá-D-Gal) galactopyranoside, 8-Hydroxyquinoline-beta-D-galactopyrano-side, 5-Iodo-3-indoxyl-2-Nitrophenyl-beta-D-galactopyranoside, (purple), beta-D-galactopyranoside Nitrophenyl-beta-D-galactopyranoside, Naphthol AS-BI-beta-D-galactopyranoside, 2-Naphthyl-beta-D-galactopyranoside (yellow), 4-Methylumbelliferyl-beta-D-glucuronic acid, galactosidase, beta-D-Galactosidase, Iodo-3-indoxyl-beta-D-galactopyranoside, beta-D-Iodo-3-indoxyl-alpha-L-galactopyranoside, alpha-L-Galactosidase, Cellobiosidase, 5-Bromo-4-chloro-3-indoxyl-beta-D-cellobioside, 5-Bromo-6-chloro-3-4-Nitrophenyl-beta-D-cellobioside, 1-Naphthylindoxyl-beta-D-cellobioside, 4-Methylumbelliferyl-beta-D-cellobioside, glycosidases, galactosidase, cellobioside, Glucosaminidase, Arabinosidase, Fucosidase, Galactosaminidase, gellobiosidase, Glucosidase, Glucuronidase, Lactosidase, Maltosidase, Mannosidase, Xylosidase, arabinopyranoside, Fucopyranoside, Galactosaminide, Glucosaminide, Glucopyranoside, Glucuronic acid, Lactopyranoside, Maltopyranoside, Mannopyranoside, Xylopyranoside, 5-Bromo-6-chloro-3-indoxyl, 6-chloro-3-indoxyl, 5-5-Bromo-4-chloro-3-indoxyl, Bromo-3-indoxyl, 5-Iodo-3-indoxyl, 3-indoxyl, 2-(6-Bromonaphthyl), 6-Fluoro-3indoxyl 2-Nitrophenyl, 4-Nitrophenyl, 1-Naphthyl, Naphthyl AS-BI, 2-Nitrophenyl-Nacetyl, 4-Nitrophenyl-N-acetyl, 4-Methylumbelliferyl moieties, esterases, Carboxyl esterase, Cholesterol esterase, sulfatases, Aryl sufatase, phosphatases, Alkaline phosphatase, Carboxyl esterase, 6-chloro-3-indoxyl butyrate, Aryl sulfatase, 5-bromo-4-

1.00 5 July 1969

chloro-3-indoxyl sulfate, alkaline phosphatase 2-naphthyl, dehydrogenase, oxidase, hydroxylase, oxidoreductase, dehydrogenases, hydroxylases, a-NAD, nicotinamide adenine dinucleotide, nicotinamide adenine dinucleotide 3'-phosphate, nicotinamide adenine dinucleotide phosphate, triphosphopyridine/nicotinamide 1-N1-ethenoadenine nicotinamide hypoxanthine dinucleotide, dinucleotide phosphate, hypoxanthine dinucleotide phosphate, nicotinamide mononucleotide, nicotinamide N1propylsulfonate, nicotinamide ribose monophosphate, Formaldehyde dehydrogenase, Fructose dehydrogenase, Glucose-6-phosphate/dehydrogenase, Glucose dehydrogenase, Glycerol Glycerol-3-phosphate dehydrogenase, dehydrogenase, Glutamate dehydrogenase, hydroxybutyrate dehydrogenase, Hydroxybenzoate hydroxylase, Lactate dehydrogenase, Malate dehydrogenase, Mannitol Leucine dehydrogenase, dehydrogenase, oxidases, Acyl-CoA oxidase, alcohol oxidase, ascorbate oxidase, Cholesterol oxidase, Choline oxidase, /Glucose oxidase, Glycerophosphate oxidase, (2,2'-Azinobis(3peroxidase, **ABTS** Uricase, pyrogallol, Xanthine oxidase, ethylbenzthiazoline) sulfonic acid), 3,3',5,5'-Tetramethylbenzidine, ortho-Dianisidine, (3-Amino-9-ethyl carbazole), 2-5, dimethyl-2,5-**AEC** 3,3'-Diaminibenzidine, Bis{4-[N-(3'-sulfo-n-propyl)-N-n-ethyl]amino-2,6dihydroperoxyhexane, (Bis-MAPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3dimethylphenyl}methane methoxyaniline (ADOS), N-Ethyl-N-(3-sulfopropyl)-3-methoxyaniline (ADPS), N-Ethyl-N-Ethyl-N-(3-sulfopropyl)-3,5-(ALOS), N-(2-hydroxy-3-sulfopropyl)aniline N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3-methylaniline dimethylaniline (MAPS), (TOOS), N-Ethyl-N-(3-sulfopropyl)-3-methylaniline (TOPS), N-(3-sulfopropyl)aniline (HALPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxy- aniline (DAOS), N-Ethyl-N-(3-sulfopropyl)-3,5-dimethoxyaniline (DAPS), N-Ethyl-N-(3-sulfopropyl)aniline (HDAOS), N-(3-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxyaniline (ALPS), sulfopropyl)-3,5-dimethoxyaniline (HDAPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5dimethylaniline (MAO), and N,N-Bis(4-sulfobutyl)-3,5-dimethylaniline (MADB), 3-Methyl-2-benzothiazolinonehydrazone, Dimerhylaniline, 4-aminoantipyrine, phenol, 2,4-Sulfonate, N.Np-Hydroxybenzene N,N-Diethyl-m-toluidine, Dichlorophenol, Sodium N-Ethyl-N-(3-3.5-Dichloro-2-Hydroxybenzenesulfonate, Dimethylaniline,

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Sulfopropyl)-m-Anisidine, N-Ethyl-N-(2-hydroxy-3-Sulfopropyl)-m-toluidine, NADPH oxidoreductase, NADPH, oxidoreductase, and NBT (nitro blue tetrazolium).

10. The method according to claim 8 wherein said buffer can be selected from the group consisting of citrate, borate, phosphate, borax, sodium tetraborate decahydrate, sodium sodium carbonate. **TRIS** sodium chlorate, perchlorate, (Tris[hydroxymethyl]aminomethane), MES (2-[N-Morpholino]ethanesulfonic acid), BIS-**TRIS** (bis[2-Hydroxyethyl]iminotris[hydroxymethyl]methane;2-bis[2-Hydroxyethyl]amino-2-[hydroxymethyl-1,3-propanediol), ADA (N-[2-Acetamidol]-2iminodiacetic acid; N-[Carbaoylmethyl]iminodiacetc acid), ACES (2-[(2-Amino-2oxoethyl)amino]ethanesulfonic acid; N-[2-Acetamido]-2-aminoethanesulfonic acid), PIPES (PiperazineN-N'-bis[2-ethanesulfonic acid)]; 1,4-Piperzinedethanesulfoic acid), MOPSO (3-[N-Morpholinol]-2-hydroxypropanesulfonic acid), BIS-TRIS PROPANE (1,3-bis[tris(Hydroxymethyl)methylamino]propane), BES (N,N-bis[2-Hydroxyethyl]-2aminoethaesulfonic acid; 2-bis(2-Hydroxyethyl)amino]ethanesulfonic acid), MOPS (3-TES (N-tris[Hydroxymethyl]methyl-2acid), [N-Morpholino]propanesulfonic acid; 2[2-Hysroxy-1,1-bis(hydroxymethyl)aminomethanesulfonic (N-[2-Hydroxyethyl]piperazine-N'-[2-**HEPES** acid), ethyl]amino)ethanesulfonic (3-[N,N-bis(2-Hydroxyethyl)amino]-2-**DIPSO** ethanesulfonic acid]), (3-[N-tris(Hydroxyethyl)methylamino]-2acid), **TAPSO** hydroxypropanesulfonic **HEPPSO** (N-[2-Hydroxythyl]piperazine-N'hydroxypropanesulfonic acid), (Piperazine-N,N'-bis[2-**POPSO** acid]), [2Hydroxypropanesulfonic acid]), **EPPS** (N-[2-Hydroxyethyl]piperazine-N'-[3hydroxypropanesulfonic (N-TRICINE acid), **TEA** (triethanolamine), propanesulfonic tris[Hydroxymethyl]methyllycine; N-[2-Hydroxy-1-1-bis(hydroxymethyl)etyyl]glycine), BICINE (N,N-bis[2-Hydroxyethyl]glycine), TAPS (N-tris[Hydroxymethyl]methyl-3-([2-Hdroxy-1,1-bis(hydroxymethyl)ethyl]amino)-1aminopropanesulfonic acid; (3-[(1,1-Dimethyl-2-hydroxyethyl)amino]-2acid), **AMPSO** propanesulfonic hydroxypropanesulfonic acid), CHES (2-[N-Cyclohexylamino]ethanesulfonic acid), CAPSO (3-[Cyclohexylamino]-2-hydroxy-1-propanesulfonic acid), AMP 2-Amino-2ethyl-1-propanol, CAPS (3-[cyclohexylamino]-1-propanesulfonic acid), hydrochloric

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A 1 cox acid, phosphoric acid, lactic acid, sulfuric acid, nitric acid, chromic acid, boric acid, perchloric acid, potassium hydrogen tartrate, potassium hydrogen phthalate, calcium hydroxide, phosphate, bicarbonate, sodium hydroxide, potassium hydroxide, oxalate or succinate.

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11. The method according to claim 8 wherein said analyte of interest can be selected from the group consisting of cocaine, opiates, gamma-hydroxybutyric acid, cannabinoids, amikácin, acid, amitriptyline, acetaminophen, aminocaproic benzodiazepines, amobarbital, amphetamine, bromide, caffeine, carbamazepine, carbenicillin, chloral hydrate, chloramphenicol, chlordiazepoxide, chlorpromazine, cimetidine, clonazepam, clonidine, clorazepate, cocaine, cocaine metabolites, ethanol, methanol, codeine, cyclosporine, desipramine, dexamethsone, diazepam, digoxin, diphenylhydantoin, disopyramide, doxepin, ephedrine, ethchlorvynol, ethosuximide, fenoprofen, flecainide, flurazepam, gentamicin, glutethimide, hydromorphone, ibuprofen, imipramine, isoniazid, kanamycin, lidocaine, lithium, lorazepam, lysergic acid, meperidine, meprobamate, methadone, methamphetamine, methaqualone, methotrexate, methsuximide, methyldopa, methyprylon, morphine, n-acefylprocainamide, netilmicin, nortriptyline, oxazepam, oxycodone, paraldehyde, paraquat, pentazocine, pentobarbital, phenacetin, phencyclidine, phensuximide, phenylbutazone, phenylpropanolamine, phenytoin, phenobarbital, primidone, procainamide, propoxyphene, propranolol, protripyline, quinidine, salicylates, secobarbital, theophylline, thiocynate, thiopental, thioridazine, tobramycin, tolbutamide, valproic acid, vancomycin, cholesterol, triglycerides, glucose, adrenocortocotropic hormone, alanine, alanine aminotransferase, albumin, aldolase, aldosterone, amylase, amyloid-associated protein, androstenedione, angiotenesis, antidiuretic hormone, antithrombin, antitrypsin! apolipoprotein, ascorbic acid, bile acids, bilirubin, c-peptide, calcitonin, calcium, cancer antigen 125, carboxyhemoglobin, carotene, catecholamines, cholic acid, cholyglycine, chromium, chymotrypsin, complement components, coproporhyrin, corticobinding globulin, corticosterone, cortisol, c-peptide, c-reactive protein, creatine, creatinine, creatine kinase, cyclic AMP, cystine, cysteine, sulfate, deoxycholic acid, dehydroepiandrosterone, dehydroepiandrosterone deoxycortocosterone, 11-deoxycortisol, dihydrotestosterone, estradiol, estriol, estrogen,

estrone, fecal fat, fatty acids, ferritin, fetoprotein, fibrinogen, folate, follicle stimulating hormone, thyroxine, triiodothyronine, fructose, fructosamine, galactose, gastric acid, gastrin, glucagons, glucose-6-phosphate, glutamine, glutamyltransferase (GGT), glutathione, hemoglobin, glycerol, glycine, glycolic acid, gold, gonadptropins, growth lipoproteins, hemopexin, hemocystein, haptoglobin, high-density hormone, acid, homovanillic acid, sulfide, 17homocysteine, homogentisic hydrogen 5-hydroxyindoleacetic hydroxycortocosteriods, acid. 17-hydroxyprogesterone, hydroxyproline, immunoglobins, insulin, iron, isocitrate dehydrogenase, isoleucine, 17ketogenic steroids, ketone bodies, lactate, lactate dehydrogenase, lactose, LDLcholesterol, lecithin, leucine, leukocyte, lipase, lipoproteins, lutropin, lysozyme, macroamylase, magnesium, melanin, metanephrine, methionine, metyrapone, microsomal antibodies, antibodies, molybdenum/ mucoploysaccharide, myelin basic protein, myoglobin, methemoglobin, niacin,/ nickel, nitrite, nitrogen, nonprotein nitrogen, normetanephrine, blood, orosomućoid, oxalate, oxytocin, pancreatice polypeptide, pantothenic acid, parathyroid hórmone, pentachloropehnol, pentoses, pepsinogen, phenols, phenolsulfonphthalein, phenylalanine, acid phosphatase, alkaline phosphatase, phosphofructokinase, phospholipids, placental lactogen, plasminogen, porphobilinogen, prealbumin, pregnanediol, chorionic gonadotropin, pregnanetriol, pregnanediole, properdin, portoporphyrin, prostaglandins, porinsulin! progesterone, pseudocholinesterase, pyruvic acid, renin, reverse triiodothyromine, rheumatoid factor, riboflavin, secretin, selenium, serotonin, somatomedin c, sucrose, testosterone, tetrahydrocortisol, tetrehydrodeoxycortisol, thallium, thyroglobin, thyroid antibodies, thyroid stimulating hormone, thyroxine binding globulin, thyroxine, transcortin, transferring, transketolase, transthyretin, thyrotropin-releasing hormone, triglycerides, triiodothryonine, tyrosine, urea, urea nitrogen, uric acid, uricase, urobilinogen, uroporphyrin, valine, vanillymandelic acid, vasoactive intestinal polypetide, human vitamins, xylose, zinc, cyanide, chorionic gonadotropin, mass creatinine kinase, formaldehyde, ethylene glycol, lead, mercury, xylene, human immumodeficiency virus (HIV), cytomegalovirus (CMV) IgG, cytomegalovirus (CMV) IgM, herpes simplex virus (types 1 and 2) IgG, rubella IgG, rubella, IgM, toxoplasma IgG, toxoplasma IgM, amebiasis, Epstein-barr early antigen, Epstein-barr EBNA IgG, Epstein-barr VCA IgG, Epstein-barr VCA IgM, helicobacter pylori-IgG, legionella IgG/IgM/IgA, mycoplasma IgG, mycoplasma IgM, varicella zoster virus (VZV), antinuclear antibodies (ANA), antineutrophil cytoplasmic antibodies (ANCA), anti-cardiolipin, anti-dsDNA, anti-Jo-1, anti-Scl-70, anti-Sm (Smith antigen), anti-Sm/RNP, anti-SS-A/Ro, anti-SS-B/La, extractable nuclear antigen (ENA), myeloperoxidase IgG, proteinase-3 IgG, or Rheumatoid Factor.

- 12. The method for the detection of Prostate Specific Antigen the analyte of interest in a sample, wherein the sample is selected from the group consisting of urine, serum, whole blood, cerebral spinal fluid, gastric fluid, sweat extracts, hair homogenates, saliva, water, soft drinks, beer or mixed drinks, consisting essentially of;
 - (A) placing the reagent consisting essentially of an nucleounit indicator conjugate and a buffer in the reagent compartment of a chemistry autoanalyzer, aliquoting samples, calibrators, and controls into sample cups and placing them on the chemistry autoanalyzer;
 - (B) and transferring aliquots of each sample, calibrator, and control into single discrete cuvettes mounted within the chemistry autoanalyzer; and
 - (C) aliquoting the said reagent into each cuvette and mixing; and
 - (D) incubating the reaction mixture; and
 - (E) measuring and recording absorbance values of the reaction mixtures with the chemistry autoanalyzer's spectrophotometer at 340 nm to 800 nm at preprogrammed time intervals; and
 - (F) comparing absorbance values of samples and controls to those of calibrators in the form of a standard curve thereby quantitating the prostate specific antigen present without the use of nucleic acid ligands.
- 13. The method according to claim 12 wherein said nucleounit indicator conjugate can be selected from the group consisting of 4-Aminophenyl-beta-D-galactopyranoside, 3-

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(blue), 5-Bromo-4-chloro-3-indoxyl-beta-Dindoxyl-beta-D-galactopyranoside galactopyranoside (blue), 5-Bromo-3-indoxyl-beta-D-galactopyranoside (blue), 6-chloro-5-bromo-6-chloro-3-indoxyl-beta-D-(salmon), 3-indoxyl-beta-D-galactopyranoside 6-Fluoro-3-indoxyl-beta-D-D-Gal) galactopyranoside (Magenta- betagalactopyranoside, 8-Hydroxyquinoline-beta-D-galactopyrano-side, 5-Iodo-3-indoxyl-2-Nitrophenyl-beta-D-galactopyranoside, (purple), beta-D-galactopyranoside Nitrophenyl-beta-D-galactopyranoside, Naphthol AS-BI-beta-D-galactopyranoside, 2-Naphthyl-beta-D-galactopyranoside (yellow), 4-Methylumbelliferyl-beta-D-glucuronic acid, galactosidase, beta-D-Galactosidase, Ibdo-3-indoxyl-beta-D-galactopyranoside, Iodo-3-indoxyl/alpha-L-galactopyranoside, alpha-L-Galactosidase, Cellobiosidase, 5-Bromo-4-chloro-3-indoxyl-beta-D-cellobioside, 5-Bromo-6-chloro-3-4-Nitrophenyl-beta-D-cellobioside, 1-Naphthylindoxyl-beta-D-cellobioside, cellobioside, 4-Methylumbelliferyl-beta/D-cellobioside, glycosidases, galactosidase, Arabinosidase, Fucosidase, Galactosaminidase, Glucosaminidase, gellobiosidase, Glucosidase, Glucuronidase, Lactosidase, Maltosidase, Mannosidase, Xylosidase, arabinopyranoside, Fucopyranoside, Galactosaminide, Glucosaminide, Glucopyranoside, Glucuronic acid, Lactopyranoside, Maltopyranoside, Mannopyranoside, Xylopyranoside, 5-Bromo-4-chloro-3-indoxyl, 5-Bromo-6-chloro-3-indoxyl, 6-chloro-3-indoxyl, 5-Bromo-3-indoxyl, 5-Iodo-3-indoxyl, 3-indoxyl, 2-(6-Bromonaphthyl), 6-Fluoro-3indoxyl 2-Nitrophenyl, 4-Nitrophenyl, 1-Naphthyl, Naphthyl AS-BI, 2-Nitrophenyl-Nacetyl, 4-Nitrophenyl-N-acetyl, 4-Methylumbelliferyl moieties, esterases, Carboxyl esterase, Cholesterol esterase, sulfatases, Aryl sufatase, phosphatases, Alkaline phosphatase, Carboxyl esterase, 6-chloro-3-indoxyl butyrate, Aryl sulfatase, 5-bromo-4chloro-3-indoxyl sulfate, alkaline phosphatase 2-naphthyl, dehydrogenase, oxidase, nicotinamide hydroxylase, oxidoreductase, dehydrogenases, hydroxylases, a-NAD, adenine dinucleotide, nicotinamide adenine dinucleotide 3'-phosphate, nicotinamide adenine dinucleotide phosphate, triphosphopyridine, nicotinamide 1-N1-ethenoadenine phosphate, nicotinamide hypoxanthine nicotinamide dinucleotide, dinucleotide hypoxanthine dinucleotide phosphate, nicotinamide mononucleotide, nicotinamide N1propylsulfonate, nicotinamide ribose monophosphate, Formaldehyde dehydrogenase, Fructose dehydrogenase, Glucose-6-phosphate dehydrogenase, Glucose dehydrogenase,

Glycerol-3-phosphate Glycerol dehydrogenase, Glutamate dehydrogenase, dehydrogenase, hydroxybutyrate dehydrogenase, Hydroxybenzoate/hydroxylase, Lactate Mannitol dehydrogenase, Malate. dehydrogenase, Leucine dehydrogenase, dehydrogenase, oxidases, Acyl-CoA oxidase, alcohol oxidase, ascorbate oxidase, Cholesterol oxidase, Choline oxidase, Glucose oxidase, Glycerophosphate oxidase, pyrogallol, / ABTS (2,2'-Azinobis(3-Uricase, peroxidase, Xanthine oxidase, ethylbenzthiazoline) sulfonic acid), 3,3',5,5'-Tetramethylbenzidine, ortho-Dianisidine, carbazole), 2-5, dimethyl-2.5-AEC (3-Amino-9-ethyl 3,3'-Diaminibenzidine, Bis{4-[N-(3'-sulfo/n-propyl)-N-n-ethyl]amino-2,6dihydroperoxyhexane, N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3dimethylphenyl}methane (Bis-MAPS), methoxyaniline (ADOS), N-Ethyl-N-(3-sulfopropyl)-3/methoxyaniline (ADPS), N-Ethyl-(ALOS), N-Ethyl-N-(3-sulfopropyl)-3,5-N-(2-hydroxy-3-sulfopropyl)aniline N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3-methylaniline (MAPS), dimethylaniline (TOOS), N-Ethyl-N-(3-sulfopropyl)-3-methylaniline (TOPS), N-(3-sulfopropyl)aniline (HALPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxy- aniline (DAOS), N-Ethyl-N-(3-sulfopropyl)-3,5-dimethoxyaniline (DAPS), N-Ethyl-N-(3-sulfopropyl)aniline N-(2-hydroxy-3-sulfopropyl)-3,5/dimethoxyaniline (HDAOS), N-(3-(ALPS), sulfopropyl)-3,5-dimethoxyaniline (HDAPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5dimethylaniline (MAO), and N,N-Bis(4-sulfobutyl)-3,5-dimethylaniline (MADB), 3-Methyl-2-benzothiazolinonehydrazone, Dimerhylaniline, 4-aminoantipyrine, phenol, 2,4-Sulfonate, N,N-N.N-Diethyl-m-toluidine, p-Hydroxybenzene Dichlorophenol, 3,5-Dichloro-2-Hydroxybenzenesulfonate, Sodium N-Ethyl-N-(3-Dimethylaniline, Sulfopropyl)-m-Anisidine, N-Ethyl-N/(2-hydroxy-3-Sulfopropyl)-m-toluidine, NADPH oxidoreductase, NADPH, oxidoreductase, and NBT (nitro blue tetrazolium).

14. The method according to claim 2 wherein said buffer can be selected from the group consisting of citrate, borate, phosphate, borax, sodium tetraborate decahydrate, sodium perchlorate, sodium carbonate, sodium carbonate, TRIS (Tris[hydroxymethyl]aminomethane), MES (2-[N-Morpholino]ethanesulfonic acid), BIS-TRIS (bis[2-Hydroxyethyl]iminotris[hydroxymethyl]methane;2-bis[2-Hydroxyethyl]amino-2-[hydroxymethyl-1,3-propanediol), ADA (N-[2-Acetamidol]-2-

iminodiacetic acid; N-[Carbaoylmethyl]iminodiacetc acid), ACES (2-[(2-Amino-2oxoethyl)amino]ethanesulfonic acid; N-[2-Acetamido]-2-aminoethanesulfonic acid), PIPES (PiperazineN-N'-bis[2-ethanesulfonic acid)]; 1,4-Piperzinedethanesulfoic acid), MOPSO (3-[N-Morpholinol]-2-hydroxypropanesulfonic acid), BIS-TRIS PROPANE (1,3-bis[tris(Hydroxymethyl)methylamino]propane), BES /(N,N-bis[2-Hydroxyethyl]-2aminoethaesulfonic acid; 2-bis(2-Hydroxyethyl)aminolethaesulfonic acid), MOPS (3-[N-Morpholino]propanesulfonic acid), TES (N-tris[Hydroxymethyl]methyl-2-2[2/Hysroxy-1,1-bis(hydroxymethyl)acid: aminomethanesulfonic (N/[2-Hydroxyethyl]piperazine-N'-[2ethyllamino)ethanesulfonic acid), **HEPES** (3/N,N-bis(2-Hydroxyethyl)amino]-2-**DIPSO** ethanesulfonic acid]), hydroxypropanesulfonic acid), **TAPSO** (3-1/N-tris(Hydroxyethyl)methylamino]-2-HEPPSÓ (N-[2-Hydroxythyl]piperazine-N'acid), hydroxypropanesulfonic acid]). **POPSO** (Piperazine-N,N'-bis[2-[2Hydroxypropanesulfonic **EPPS** (N-[2-Hydroxyethyl]piperazine-N'-[3acid]), hydroxypropanesulfonic **TEA** (triethanolamine), TRICINE (Npropanesulfonic acid), tris[Hydroxymethyl]methyllycine; N-[2-Hydroxy-1-1-bis(hydroxymethyl)etyyl]glycine), BICINE (N,N-bis[2-Hydroxyethyl]glycine, TAPS (N-tris[Hydroxymethyl]methyl-3-([2-Hdroxy-1,1-bis(hydroxymethyl)ethyl]amino)-1acid; aminopropanesulfonic (3-[(1,1-Dimethyl-2-hydroxyethyl)amino]-2-AMPSO propanesulfonic acid), (2-[N-Cyclohexylamino]ethanesulfonic acid), hydroxypropanesulfonic acid), CHEŞ CAPSO (3-[Cyclohexylamino]-2-hydroxy-1-propanesulfonic acid), AMP 2-Amino-2ethyl-1-propanol, CAPS (3-[cyclohéxylamino]-1-propanesulfonic acid), hydrochloric acid, phosphoric acid, lactic acid, sulfuric acid, nitric acid, chromic acid, boric acid, perchloric acid, potassium hydrogen tartrate, potassium hydrogen phthalate, calcium hydroxide, phosphate, bicarbonate, sodium hydroxide, potassium hydroxide, oxalate or succinate.

15. The method according to claim 12 wherein said analyte of interest can be selected from the group consisting of cocaine, opiates, gamma-hydroxybutyric acid, cannabinoids, benzodiazepines, acetaminophen, amikacin, aminocaproic acid, amitriptyline, amobarbital, amphetamine, bromide, caffeine, carbamazepine, carbenicillin, chloral

hydrate, chloramphenicol, chlordiazepoxide, chlorpromazine, cimetidine, clonazepam, clonidine, clorazepate, cocaine, cocaine metabolites, ethanol, methanol, codeine, cyclosporine, desipramine, dexamethsone, diazepam, digoxin, diphenylhydantoin, disopyramide, doxepin, ephedrine, ethchlorvynol, ethosuximide, fenoprofen, flecainide, flurazepam, gentamicin, glutethimide, hydromorphone, ibuprofen, imipramine, isoniazid, kanamycin, lidocaine, lithium, lorazepam, lysergic acid, meperidine, meprobamate, methadone, methamphetamine, methaqualone, methotrexate, methsuximide, methyldopa, methyprylon, morphine, n-acetylprocainamide, netilmicin, nortriptyline, oxazepam, oxycodone, paraldehyde, paraquat, pentazocine, pentobarbital, phenacetin, phencyclidine, phensuximide, phenylbutazone,/ phenylpropanolamine, primidone, procainamide, propoxyphene, propranglol, protripyline, quinidine, salicylates, secobarbital, theophylline, thiocynate, thiopental, thioridazine, tobramycin, tolbutamide, valproic acid, vancomycin, cholesterol, triglycerides, glucose, adrenocortocotropic hormone, alanine, alanine aminotransferase, albumin, aldolase, aldosterone, amylase, amyloid-associated protein, androstenedione, angiotenesis, antidiuretic hormone, antithrombin, antitrypsin, apolipoprotein, ascorbic acid, bile acids, bilirubin, c-peptide, calcitonin, calcium, cancer antigen 125, /carboxyhemoglobin, carotene, catecholamines, cholic acid, cholyglycine, chromium, chymotrypsin, complement components, coproporhyrin, corticobinding globulin, corticosterone, cortisol, c-peptide, c-reactive protein, creatine, creatine kinase, cyclic AMP, cystine, dehydroegiandrosterone sulfate. deoxycholic acid, dehydroepiandrosterone, deoxycortocosterone, 11-deoxycortisol, dihydrotestosterone, estradiol, estriol, estrogen, estrone, fecal fat, fatty acids, ferrifin, fetoprotein, fibrinogen, folate, follicle stimulating hormone, thyroxine, triiodothyronine, fructose, fructosamine, galactose, gastric acid, glucose-6/phosphate, glutamine, glutamyltransferase (GGT), glucagons, gastrin, glutathione, hemoglobin, glycerol, glycine, glycolic acid, gold, gonadptropins, growth haptoglobin, high-density lipoproteins, hemopexin, hemocystein, hormone, homocysteine, homogentisic acid, homovanillic acid, hydrogen sulfide, 17-5-hydroxyindoleacetic acid. 17-hydroxyprogesterone, hydroxycortocosteriods, hydroxyproline, immunoglobins, insulin, iron, isocitrate dehydrogenase, isoleucine, 17ketogenic steroids, ketone bodies, lactate, lactate dehydrogenase, lactose, LDL-

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cholesterol, lecithin, leucine, leukocyte, lipase, lipoproteins, lutropin, lysozyme, macroamylase, magnesium, melanin, metanephrine, methionine, metyrapone, microsomal antibodies, antibodies, molybdenum, mucoploysaccharide, myelin basic protein, myoglobin, methemoglobin, niacin, nickel, nitrite, nitrogen, nonprotein nitrogen, normetanephrine, blood, orosomucoid, oxalate, /oxytocin, pancreatice polypeptide, pantothenic acid, parathyroid hormone, pentachloropehnol, pentoses, pepsinogen, phenols, phenolsulfonphthalein, phenylalanine, acid phosphatase, alkaline phosphatase, phosphofructokinase, phospholipids, placental/lactogen, plasminogen, porphobilinogen, prealbumin, pregnanediol, chorionic gonadotropin, pregnanetriol, pregnenolone, properdin, progesterone, portoporphyrin, porinsulin, prostaglandins, pseudocholinesterase, pyruvic acid, renin/ reverse triiodothyromine, rheumatoid factor, riboflavin, secretin, selenium, serotonin, somatomedin c, sucrose, testosterone, tetrahydrocortisol, tetrehydrodeoxycortisol, thallium, thyroglobin, thyroid antibodies, thyroid stimulating hormone, thyroxine binding globulin, thyroxine, transcortin, transferring, transketolase, transthyretin, thyrotropin-releasing hormone, triglycerides, triiodothryonine, tyrosine, urea, / urea nitrogen, uric acid, uricase, urobilinogen, uroporphyrin, valine, vanillymandelic acid, vasoactive intestinal polypetide, human vitamins, xylose, zinc, cyanide, chorionic gonadotropin, mass/creatinine kinase, formaldehyde, ethylene glycol/ lead, mercury, xylene, human immumodeficiency virus (HIV), cytomegalovirus (CMV) IgG, cytomegalovirus (CMV) IgM, herpes simplex virus (types 1 and 2) IgG, rubella IgG, rubella, IgM, toxoplasma IgG, toxoplasma IgM, amebiasis, Epstein-barr early antigen, Epstein-barr EBNA IgG, Epstein-barr VCA IgG, Epstein-barr VCA IgM, helicobacter pylori-IgG, legionella IgG/IgM/IgA, mycoplasma IgG, mycoplasma IgM, varicella zoster virus (VZV), antinuclear antibodies (ANA), antineutrophil cytoplasmic antibodies (ANCA), anti-cardiolipin, anti-dsDNA, anti-Jo-1, anti-Scl-70, anti-Sm (Smith antigen), anti-Sm/RNP, anti-SS-A/Ro, anti-SS-B/La, extractable nuclear antigen (ENA), myeloperoxidase IgG, proteinase-3 IgG, or Rheumatoid Factor.

Claim Rejections:

The newly added claims eliminate the objections made by the Examiner by the applicant specifically limiting claims so that the claims distinguish over the references cited. Specifically the claims eliminate the use of ELISA, Western Blot and Thin Layer Liquid Phase methods for analysis of HIV antibodies to be used to as claimed by Friedman-Kein et al., and Ishigawa et al. This places the application in condition for allowance.

For all of the above reasons, applicant submits that the specification and claims are now in proper form, and that the newly added claims 19-32 all define patentably over the prior art. Therefore the applicant submits that this application is now in condition for allowance, which action is respectfully solicited.

Comments:

REMARKS - General

The applicant has deleted old claims 1-7 and added new claims 8-15 to define the invention more particularly and distinctly so as to overcome the rejections and define the invention patentably over the prior art.

The Claims Rejection Under 35 USC § 112

The specification was objected to under § 112 since it was said to fail to enable for any analytes and indicators. The applicant request reconsideration and withdrawal of this objection since it is not necessary to teach prior art **standard** works. The newly added claims of 8-12 enable the invention as taught in the specification. Accordingly the applicant submits that the new claims do comply with § 112 and therefore request withdrawal of this objection.

In response to the Examiners § 112 rejections and basis on pages 3-8 of the Office Action dated 8/29/02, the prior claims 1-4, 6 and 7 which are now deleted, were rejected under